

Serial Number: 09/555,342 A

ENTERED

- ☐ Changed a file from non-ASCII to ASCII
- ☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.
- ☐ Edited a format error in the Current Application Data section, specifically:
- ☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other _____
- ☐ Added the mandatory heading and subheadings for "Current Application Data".
- ☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
- ☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically:
- ☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were:
- ☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:
- ☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
- ☐ Inserted colons after headings/subheadings. Headings edited included:
- ☐ Deleted extra, invalid, headings used by an applicant, specifically:
- ☐ Deleted: ☐ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/lastname at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as _____
- ☐ Inserted mandatory headings, specifically: _____
- ☐ Corrected an obvious error in the response, specifically: _____
- ☐ Edited identifiers where upper case is used but lower case is required, or vice versa.
- ☐ Corrected an error in the Number of Sequences field, specifically: _____
- ☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
- ☐ Deleted ending stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: _____
- ☒ Other: Seq 2 - corrected amino acid nos.

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NOV 09 2001

TECH CENTER 1600/2900

Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

RAW SEQUENCE LISTING

DATE: 10/29/2001

PATENT APPLICATION: US/09/555,342A

TIME: 18:03:32

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\10292001\I555342A.raw

3 <110> APPLICANT: CHUGAI SEIYAKU KABUSHIKI KAISHA
 5 <120> TITLE OF INVENTION: cDNA and deduced amino acid sequence in human fetus
 chondrocytes

8 <130> FILE REFERENCE: CGS98-04PCT

C--> 10 <140> CURRENT APPLICATION NUMBER: US/09/555,342A

C--> 10 <141> CURRENT FILING DATE: 2000-05-26

10 <160> NUMBER OF SEQ ID NOS: 22

12 <170> SOFTWARE: PatentIn Ver. 2.0

14 <210> SEQ ID NO: 1

15 <211> LENGTH: 3442

16 <212> TYPE: DNA

17 <213> ORGANISM: Homo sapiens

19 <220> FEATURE:

20 <221> NAME/KEY: CDS

21 <222> LOCATION: (49)..(3183)

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25 Met Gly Glu

26 1

28 ata gag cag agg ccg acc cca gga tca cga ctg ggg gcc ccg gaa aat 105

29 Ile Glu Gln Arg Pro Thr Pro Gly Ser Arg Leu Gly Ala Pro Glu Asn

30 5 10 15

32 tcg ggg atc agt acc ttg gaa cgt gga cag aag ccg ccc cca aca cct 153

33 Ser Gly Ile Ser Thr Leu Glu Arg Gly Gln Lys Pro Pro Pro Thr Pro

34 20 25 30 35

36 tca gga aaa ctc gtg tcc atc aaa atc cag atg ctg gat gac acc cag 201

37 Ser Gly Lys Leu Val Ser Ile Lys Ile Gln Met Leu Asp Asp Thr Gln

38 40 45 50

40 gag gca ttt gaa gtt cca caa aga gct cct ggg aag gtg ctg ctg gat 249

41 Glu Ala Phe Glu Val Pro Gln Arg Ala Pro Gly Lys Val Leu Leu Asp

42 55 60 65

44 gca gtt tgc aac cac ctc aac ctc gtg gaa ggt gac tat ttt ggc ctc 297

45 Ala Val Cys Asn His Leu Asn Leu Val Glu Gly Asp Tyr Phe Gly Leu

46 70 75 80

48 gag ttt cct gat cac aaa aag atc acg gtg tgg ctg gat ctc cta aaa 345

49 Glu Phe Pro Asp His Lys Lys Ile Thr Val Trp Leu Asp Leu Leu Lys

50 85 90 95

52 ccc att gtg aaa cag att aga agg cca aag cac gtt gtt gtt aag ttt 393

53 Pro Ile Val Lys Gln Ile Arg Arg Pro Lys His Val Val Val Lys Phe

54 100 105 110 115

56 gtg gtg aaa ttc ttt ccg cct gac cac aca caa ctc caa gaa gaa ctc 441

57 Val Val Lys Phe Phe Pro Pro Asp His Thr Gln Leu Gln Glu Glu Leu

58 120 125 130

60 aca agg tac ctg ttc gcg ctg cag gtg aag cag gac ttg gct caa ggc 489

61 Thr Arg Tyr Leu Phe Ala Leu Gln Val Lys Gln Asp Leu Ala Gln Gly

62 135 140 145

64 agg ttg acg tgt aat gac acc agc gca gct ctc ttg att tca cac att 537

65 Arg Leu Thr Cys Asn Asp Thr Ser Ala Ala Leu Leu Ile Ser His Ile

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70	165	170	175	
72	tta gca aaa aat aaa tac ata cct cag caa gac gca cta gag gac aaa	633		
73	Leu Ala Lys Asn Lys Tyr Ile Pro Gln Gln Asp Ala Leu Glu Asp Lys			
74	180	185	190	195
76	atc gtg gaa ttt cac cat aac cac att gga caa aca cca gca gaa tca	681		
77	Ile Val Glu Phe His His Asn His Ile Gly Gln Thr Pro Ala Glu Ser			
78	200	205	210	
80	gat ttc cag ctc cta gag att gcc cgt cgg cta gag atg tat gga atc	729		
81	Asp Phe Gln Leu Leu Glu Ile Ala Arg Arg Leu Glu Met Tyr Gly Ile			
82	215	220	225	
84	cgg ttg cac ccg gcc aag gac agg gaa ggc acg aag atc aat ctg gcc	777		
85	Arg Leu His Pro Ala Lys Asp Arg Glu Gly Thr Lys Ile Asn Leu Ala			
86	230	235	240	
88	gtt gcc aac acg gga att cta gtg ttt cag ggt ttc act aag atc aat	825		
89	Val Ala Asn Thr Gly Ile Leu Val Phe Gln Gly Phe Thr Lys Ile Asn			
90	245	250	255	
92	gcc ttc aac tgg gcc aag gtg cgg aag ctg agc ttc aag agg aag cgc	873		
93	Ala Phe Asn Trp Ala Lys Val Arg Lys Leu Ser Phe Lys Arg Lys Arg			
94	260	265	270	275
96	ttt ctc atc aag ctc cgg cca gat gcc aat agt gcg tac cag gat acc	921		
97	Phe Leu Ile Lys Leu Arg Pro Asp Ala Asn Ser Ala Tyr Gln Asp Thr			
98	280	285	290	
100	ttg gaa ttc ctg atg gcc agt cgg gat ttc tgc aag tcc ttc tgg aaa	969		
101	Leu Glu Phe Leu Met Ala Ser Arg Asp Phe Cys Lys Ser Phe Trp Lys			
102	295	300	305	
104	atc tgt gtt gaa cat cat gcc ttc ttt aga ctt ttt gaa gag ccc aaa	1017		
105	Ile Cys Val Glu His His Ala Phe Phe Arg Leu Phe Glu Glu Pro Lys			
106	310	315	320	
108	cca aag ccc aag ccc gtc ctc ttt agc cgg ggg tca tca ttt cgg ttc	1065		
109	Pro Lys Pro Lys Pro Val Leu Phe Ser Arg Gly Ser Ser Phe Arg Phe			
110	325	330	335	
112	agt ggt cgg act cag aag cag gtt ctc gac tat gtt aaa gaa gga gga	1113		
113	Ser Gly Arg Thr Gln Lys Gln Val Leu Asp Tyr Val Lys Glu Gly Gly			
114	340	345	350	355
116	cat aag aag gtg cag ttt gaa agg aag cac agc aag att cat tct atc	1161		
117	His Lys Lys Val Gln Phe Glu Arg Lys His Ser Lys Ile His Ser Ile			
118	360	365	370	
120	cgg agc ctt gct tca cag cct aca gaa ctg aat tcg gaa gtg ctg gag	1209		
121	Arg Ser Leu Ala Ser Gln Pro Thr Glu Leu Asn Ser Glu Val Leu Glu			
122	375	380	385	
124	cag tct cag cag agc acc agc ctt aca ttt gga gaa ggt gcc gaa tct	1257		
125	Gln Ser Gln Gln Ser Thr Ser Leu Thr Phe Gly Glu Gly Ala Glu Ser			
126	390	395	400	
128	cca ggg ggc cag agc tgc cgg cga gga aag gaa ccg aag gtt tcc gcc	1305		
129	Pro Gly Gly Gln Ser Cys Arg Arg Gly Lys Glu Pro Lys Val Ser Ala			
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134	420					425						430				435	
136	ggt	aac	aag	cag	gcg	gac	gga	gcc	gcc	tcg	gcg	ccc	acg	gag	gaa	gag	1401
137	Gly	Asn	Lys	Gln	Ala	Asp	Gly	Ala	Ala	Ser	Ala	Pro	Thr	Glu	Glu	Glu	
138					440					445						450	
140	gag	gag	gtc	ggt	aag	gat	agg	acc	cag	cag	agt	aaa	cct	cag	ccc	ccg	1449
141	Glu	Glu	Val	Val	Lys	Asp	Arg	Thr	Gln	Gln	Ser	Lys	Pro	Gln	Pro	Pro	
142					455					460						465	
144	cag	cca	agc	aca	ggc	tcc	ctg	act	ggc	agt	cct	cac	ctt	tcc	gag	ctg	1497
145	Gln	Pro	Ser	Thr	Gly	Ser	Leu	Thr	Gly	Ser	Pro	His	Leu	Ser	Glu	Leu	
146					470					475						480	
148	tct	gtg	aac	tcg	cag	ggg	gga	gtg	gcc	cct	gcc	aac	gtg	acc	ttg	tct	1545
149	Ser	Val	Asn	Ser	Gln	Gly	Gly	Val	Ala	Pro	Ala	Asn	Val	Thr	Leu	Ser	
150			485				490					495					
152	ccc	aac	ctg	agc	ccc	gac	acc	aag	cag	gcc	tct	ccc	ttg	atc	agc	ccg	1593
153	Pro	Asn	Leu	Ser	Pro	Asp	Thr	Lys	Gln	Ala	Ser	Pro	Leu	Ile	Ser	Pro	
154	500					505					510					515	
156	ctg	ctg	aat	gac	cag	gcc	tgc	ccc	cgg	acg	gac	gat	gag	gat	gag	ggc	1641
157	Leu	Leu	Asn	Asp	Gln	Ala	Cys	Pro	Arg	Thr	Asp	Asp	Glu	Asp	Glu	Gly	
158					520						525					530	
160	cgg	agg	aag	aga	ttc	cca	act	gat	aaa	gcg	tac	ttc	ata	gct	aag	gaa	1689
161	Arg	Arg	Lys	Arg	Phe	Pro	Thr	Asp	Lys	Ala	Tyr	Phe	Ile	Ala	Lys	Glu	
162					535					540						545	
164	gtg	tct	acc	acc	gag	cga	aca	tat	ctg	aag	gat	ctc	gaa	ggt	atc	act	1737
165	Val	Ser	Thr	Thr	Glu	Arg	Thr	Tyr	Leu	Lys	Asp	Leu	Glu	Val	Ile	Thr	
166					550					555						560	
168	tcg	tgg	ttt	cag	agc	aca	gtg	agc	aaa	gag	gac	gcc	atg	ccg	gaa	gca	1785
169	Ser	Trp	Phe	Gln	Ser	Thr	Val	Ser	Lys	Glu	Asp	Ala	Met	Pro	Glu	Ala	
170					565					570						575	
172	ctg	aaa	agt	ctc	ata	ttc	ccg	aat	ttt	gaa	cct	ttg	cac	aaa	ttt	cat	1833
173	Leu	Lys	Ser	Leu	Ile	Phe	Pro	Asn	Phe	Glu	Pro	Leu	His	Lys	Phe	His	
174	580					585					590					595	
176	act	aat	ttt	ctc	aag	gaa	att	gag	caa	cga	ctt	gcc	ctg	tgg	gaa	ggc	1881
177	Thr	Asn	Phe	Leu	Lys	Glu	Ile	Glu	Gln	Arg	Leu	Ala	Leu	Trp	Glu	Gly	
178					600					605						610	
180	cgc	tca	aat	gcc	caa	atc	aga	gat	tac	caa	aga	atc	ggc	gat	gtc	atg	1929
181	Arg	Ser	Asn	Ala	Gln	Ile	Arg	Asp	Tyr	Gln	Arg	Ile	Gly	Asp	Val	Met	
182					615					620						625	
184	ctg	aag	aac	att	cag	ggc	atg	aag	cac	ctg	gcg	gct	cac	ctg	tgg	aag	1977
185	Leu	Lys	Asn	Ile	Gln	Gly	Met	Lys	His	Leu	Ala	Ala	His	Leu	Trp	Lys	
186					630					635						640	
188	cac	agc	gag	gcc	ttg	gag	gcc	ctg	gag	aat	gga	atc	aag	agc	tcc	cgg	2025
189	His	Ser	Glu	Ala	Leu	Glu	Ala	Leu	Glu	Asn	Gly	Ile	Lys	Ser	Ser	Arg	
190					645					650						655	
192	cgg	ctg	gag	aac	ttc	tgc	aga	gac	ttt	gag	ctg	cag	aag	gtg	tgt	tac	2073
193	Arg	Leu	Glu	Asn	Phe	Cys	Arg	Asp	Phe	Glu	Leu	Gln	Lys	Val	Cys	Tyr	
194	660					665					670					675	
196	cta	ccg	ctc	aac	acc	ttc	ctc	ctg	cgg	cca	ctg	cac	cgg	ctc	atg	cac	2121

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201 Tyr Lys Gln Val Leu Glu Arg Leu Cys Lys His His Pro Pro Ser His
202          695          700          705
204 gcc gac ttc agg gac tgc cga gcc gct ttg gca gag atc acg gag atg 2217
205 Ala Asp Phe Arg Asp Cys Arg Ala Ala Leu Ala Glu Ile Thr Glu Met
206          710          715          720
208 gtg gca cag ctc cac ggt acg atg atc aag atg gag aat ttc cag aag 2265
209 Val Ala Gln Leu His Gly Thr Met Ile Lys Met Glu Asn Phe Gln Lys
210          725          730          735
212 ctg cac gaa ctc aag aaa gat ttg att ggc att gac aat ctt gtg gtt 2313
213 Leu His Glu Leu Lys Lys Asp Leu Ile Gly Ile Asp Asn Leu Val Val
214 740          745          750          755
216 ccg gga agg gag ttc atc cgt ctg ggc agc ctc agc aag ctc tcg ggg 2361
217 Pro Gly Arg Glu Phe Ile Arg Leu Gly Ser Leu Ser Lys Leu Ser Gly
218          760          765          770
220 aag ggg ctc cag cag cgc atg ttc ttc ctg ttc aac gac gtc ctg cta 2409
221 Lys Gly Leu Gln Gln Arg Met Phe Phe Leu Phe Asn Asp Val Leu Leu
222          775          780          785
224 tac acg agc cgg ggg ctg acg gcc tcc aat cag ttt aaa gtc cac ggg 2457
225 Tyr Thr Ser Arg Gly Leu Thr Ala Ser Asn Gln Phe Lys Val His Gly
226          790          795          800
228 cag ctc ccg ctc tat ggc atg acg att gag gag agc gaa gac gag tgg 2505
229 Gln Leu Pro Leu Tyr Gly Met Thr Ile Glu Glu Ser Glu Asp Glu Trp
230          805          810          815
232 ggg gtg ccc cac tgc ctg acc ctc cgg ggc cag cgg cag tcc atc atc 2553
233 Gly Val Pro His Cys Leu Thr Leu Arg Gly Gln Arg Gln Ser Ile Ile
234 820          825          830          835
236 gtg gcc gcc agt tct cgg tcc gag atg gag aag tgg gtt gag gac atc 2601
237 Val Ala Ala Ser Ser Arg Ser Glu Met Glu Lys Trp Val Glu Asp Ile
238          840          845          850
240 cag atg gcc att gac ctg gcg gag aag agc agc ccc gcc cct gag 2649
241 Gln Met Ala Ile Asp Leu Ala Glu Lys Ser Ser Ser Pro Ala Pro Glu
242          855          860          865
244 ttc ctg gcc agc agc ccc cct gac aac aag tcc cct gat gaa gcc acc 2697
245 Phe Leu Ala Ser Ser Pro Pro Asp Asn Lys Ser Pro Asp Glu Ala Thr
246          870          875          880
248 gcg gct gac cag gag tca gag gat gac ctg agc gcc tcg cgc aca tcg 2745
249 Ala Ala Asp Gln Glu Ser Glu Asp Asp Leu Ser Ala Ser Arg Thr Ser
250          885          890          895
252 ctg gag cgc cag gcc ccg cac cgc ggc aac aca atg gtg cac gtg tgc 2793
253 Leu Glu Arg Gln Ala Pro His Arg Gly Asn Thr Met Val His Val Cys
254 900          905          910          915
256 tgg cac cgc aac acc agc gtc tcc atg gtg gac ttc agc atc gca gtg 2841
257 Trp His Arg Asn Thr Ser Val Ser Met Val Asp Phe Ser Ile Ala Val
258          920          925          930
260 gag aat cag ttg tct gga aac ctg ctg agg aaa ttc aaa aac agc aac 2889
261 Glu Asn Gln Leu Ser Gly Asn Leu Leu Arg Lys Phe Lys Asn Ser Asn

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265 Gly Trp Gln Lys Leu Trp Val Val Phe Thr Asn Phe Cys Leu Phe Phe
266          950          955          960
268 tac aaa tca cac cag gac aat cat ccc ctt gcc agc ctg cct ctg ctc 2985
269 Tyr Lys Ser His Gln Asp Asn His Pro Leu Ala Ser Leu Pro Leu Leu
270          965          970          975
272 ggc tac tcg ctc acc atc ccc tct gag tcc gag aac atc cag aaa gac 3033
273 Gly Tyr Ser Leu Thr Ile Pro Ser Glu Ser Glu Asn Ile Gln Lys Asp
274 980          985          990          995
276 tac gtg ttc aag ctg cac ttc aag tcc cac gtc tac tac ttc agg gcg 3081
277 Tyr Val Phe Lys Leu His Phe Lys Ser His Val Tyr Tyr Phe Arg Ala
278          1000          1005          1010
280 gaa agc gag tac acg ttc gaa agg tgg atg gaa gtg atc cgc agt gcc 3129
281 Glu Ser Glu Tyr Thr Phe Glu Arg Trp Met Glu Val Ile Arg Ser Ala
282          1015          1020          1025
284 acc agc tct gcc tcg cga ccc cac gtg ttg agc cac aaa gag tct ctt 3177
285 Thr Ser Ser Ala Ser Arg Pro His Val Leu Ser His Lys Glu Ser Leu
286          1030          1035          1040
288 gtg tat tgatggcgg acacactcgt ttccgcagtg gctgctttcc tggaagacgt 3233
289 Val Tyr
290          1045
292 ttcttttctt ctgtattaat gaagcctggt aaaattaaca cctgtctgaa aatcaaaaac 3293
294 atggcttccc agcagctctc ctgtctccac agccgcgttt ttttaacccc acctctcagc 3353
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303 <212> TYPE: PRT
304 <213> ORGANISM: Homo sapiens
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313 Pro Thr Pro Ser Gly Lys Leu Val Ser Ile Lys Ile Gln Met Leu Asp
314 35 40 45
316 Asp Thr Gln Glu Ala Phe Glu Val Pro Gln Arg Ala Pro Gly Lys Val
317 50 55 60
319 Leu Leu Asp Ala Val Cys Asn His Leu Asn Leu Val Glu Gly Asp Tyr
320 65 70 75 80
322 Phe Gly Leu Glu Phe Pro Asp His Lys Lys Ile Thr Val Trp Leu Asp
323 85 90 95
325 Leu Leu Lys Pro Ile Val Lys Gln Ile Arg Arg Pro Lys His Val Val
326 100 105 110
328 Val Lys Phe Val Val Lys Phe Phe Pro Pro Asp His Thr Gln Leu Gln
329 115 120 125
331 Glu Glu Leu Thr Arg Tyr Leu Phe Ala Leu Gln Val Lys Gln Asp Leu
332 130 135 140

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VERIFICATION SUMMARY

DATE: 10/29/2001

PATENT APPLICATION: US/09/555,342A

TIME: 18:03:33

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L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date
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